Enzymes

Bioprospecting of fungi that produce enzyme complexes

Photos: Leia Favaro

Embrapa
Agroenergy

Bioprospecting of fungi that produce enzyme complexes

Raw material	Process	End product
Pretreated sugarcane bagasse	Bioprospecting of filamentous fungus	Enzyme complexes

Elite strains of endophytic fungi, isolated from the Brazilian biodiversity, producers of efficient enzyme complexes for hydrolysis of the pre-treated sugarcane bagasse.

Applications

+ Enzymatic hydrolysis of lignocellulosic biomass.
+ Processing sector - agro-industry.
+ Chemical and biotechnology industry.

Advantages

+ Reduction of the cost of obtaining cellulases.
+ Enhancement of the value of native, wild, and non pathogenic fungal species of the Brazilian biodiversity.
+ Possibility of use in several industrial branches, such as food and beverage, feed, textile, paper, and cellulose.

Stage ▶ TRL/MRL 3 - Lab scale

Take this technology to another stage

1 Codevelop — Research with us for other potential uses

2 Incubate — Make this technology the basis of your incubated company

+ Information
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